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1. A14-056: Technology to Support Non-destructive Inspection of Helicopter Sling Load (HSL) Slings and Textiles

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a technology to non-destructively inspect and test helicopter sling load slings to standards in TM 4-48.09 and FM 3-55.93 DESCRIPTION: Helicopter slings are textiles used to attach a payload (e.g. a truck, howitzer, or container) to the underbody of a military helicopter. This"external underslung payload"is then transported from one location to another. Helicopter slings co ...

SBIR Department of DefenseArmy

2. A14-057: Innovative Anti-Fog Technology for Personal Protection Eyewear

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop innovative anti-fog technology concepts compatible with impact resistant transparent materials and associated coatings that can be applied to optically corrected complex curvature lenses. DESCRIPTION: Fogging of eyewear has been a long standing issue regardless of the eyewear purpose. Protective eyewear is only effective when worn properly; however, if the user cannot see th ...

SBIR Department of DefenseArmy

3. A14-058: Novel Power Solutions for Fuzing and Munitions Applications

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop innovative and cost effective power source solutions for fuzing and munitions applications that will improve reserve battery technology, improve energy harvesting capabilities and/or enable utilization of active battery technologies. DESCRIPTION: Munitions power sources, traditionally reserve batteries (liquid and thermal), are a critical component of fuzing technologies whi ...

SBIR Department of DefenseArmy

4. A14-059: Printed Low Voltage Munition Ignition Bridge

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a printed low voltage Ignition Bridge for munition detonators and igniters that can be mass produced on standard/current production equipment. DESCRIPTION: Detonators and Igniters are used in munitions to initiate energetic materials to detonate or burn, resulting in propulsion or explosion. Since printed electronics and energetics is a relatively new technology, current pri ...

SBIR Department of DefenseArmy

5. A14-060: OH-58F Flight Control Authority and Architecture Investigation

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Investigate and determine the optimal control law architecture and required amount of Automatic Flight Control System (AFCS) partial authority needed to achieve ADS-33E-PRF Level 1 in the Degraded Visual Environment/Usable Cue Environment-2 (DVE/UCE-2) handling quality ratings with flight control augmentation on the OH-58F platform. DESCRIPTION: The cornerstone of a good degraded vis ...

SBIR Department of DefenseArmy

6. A14-061: High Capability Off-Road Active Suspension System

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: A high capability active suspension that maximizes soft soil mobility and mitigates road breakaway rollovers on 10-37 ton wheeled vehicles. i.e. Joint Light Tactical Vehicle (JLTV) and Mine Resistant Ambush Protected (MRAP) Vehicles. DESCRIPTION: The Army is looking for opportunities to enhance soft soil (mud and sand) mobility and reduce vehicle rollovers caused by road breakaways ...

SBIR Department of DefenseArmy

7. A14-062: Real-Time and Simplified Sensors to Support Mobile Wastewater Treatment

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a real-time in-line diagnostic tool to provide simple and timely verification that treated water is safe to discharge DESCRIPTION: This SBIR topic will deliver technology that the Army can integrate into its future wastewater treatment concept of operations. The Army is developing mobile wastewater treatment systems to provide tactical base commanders more organic logistics ...

SBIR Department of DefenseArmy

8. A14-063: High Voltage Pulse Forming Network (PFN) Capacitor

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate a model or full sized high energy density capacitor for microsecond discharge times operating at high voltages with an energy density greater than or equal to 1.2 Joules per cubic centimeter (J/cc). DESCRIPTION: The Army is in need of pulse power components that dramatically reduce weight and volume, while meeting the high voltage needs of a pulse forming netw ...

SBIR Department of DefenseArmy

9. A14-064: Hot Stamping of Thick Gage Armored Steels

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: This topic will identify material formulas, manufacturing process and parameters to allow complex die forming of thick gage armored steel components. Upon successful completion, this technology may be used on all army platforms including GCV & JLTV. This technology will improve structural and armored panel performance while reducing part count. Anticipated application will include un ...

SBIR Department of DefenseArmy

10. A14-065: Electronic Warfare Battle Damage Assessment

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective of this project is to develop and demonstrate a modular, open system architecture system to provide an EW operator or system of the effectivenss of an electronic attack. DESCRIPTION: EW systems attempt to disrupt or degrade an adversary"s electronic assets and serve as an invaluable force protection asset to prevent the adversary"s access to their electronics. Many o ...

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